FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| STATEMENT | OF CHANGES | IN BENEFICIAL | OWNERSHIP |
|---------------------|--------------|---------------|------------------|
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OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| 1. Name and Address of Reporting Person* <u>Turley James S</u> | | | | | | 2. Issuer Name and Ticker or Trading Symbol INTREXON CORP [XON] | | | | | | | | | k all applic | able) | orting Person(s) to Issuer 10% Owner | | |
|--|--|----------------------|------------|-------|--|---|-----------------------|---|--------------------------------------|------|---|---------------------|--|--|--|--|--|--|-----------|
| (Last) 20374 SI | ` | irst) EADOWS PARK | (Middle) | | | Date (| | Trans | saction (Month/Day/Year) | | | | | | Officer below) | (give title | | Other (sp below) | pecify |
| (Street) GERMANTOWN MD 20876 | | | | 4.1 | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | | | | Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person | | | | | | |
| (City) | (S | tate) | (Zip) | | | | | | | | | | | | | | | | |
| 1 Title of (| Coornite / Inca | | le I - Nor | | | _ | Curities 2A. Deemo | | quired, | Disp | | - | | | Owned 5. Amou | | c 0 | nership 7 | 7. Nature |
| 1. Title of Security (Instr. 3) 2. Transider One (Month/I | | | | | Execution Date | | cution Date, ny | | Transaction Disposed Code (Instr. 5) | | ities Acquired (A) o d Of (D) (Instr. 3, 4 a | | | Securitie Beneficia Owned F | es Fo ally (D) Following (I) | | : Direct of Indirect str. 4) | of Indirect Beneficial Ownership | |
| | | | | | | | | | Code | v | Amount | (A) or (D) Pri | | rice | Reported Transaction(s) (Instr. 3 and 4) | | | | Instr. 4) |
| Common Stock 03/23 | | | | 3/201 | /2018 | | A | | 3,955 A | | \$ | 15.8 ⁽¹⁾ | 13, | 550 | | D | | | |
| | Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) | | | | | | | | | | | | | | | | | | |
| 1. Title of Derivative Security (Instr. 3) | erivative Conversion Date Execution Date, ecurity or Exercise (Month/Day/Year) if any | | | | ransaction of E ode (Instr. Derivative (| | | 6. Date Exercisable and Expiration Date (Month/Day/Year) (Month/Day/Year) 7. Title and of Securitic Underlying Derivative (Instr. 3 and | | | rities ing ve Sec | | 3. Price of Derivative Security Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | | |
| | | | | c | Code | v | (A) | (D) | Date Exercisab | | expiration pate | Title | or Nui of | ount nber ires | | | | | |
| Restricted Stock Units | (2) | 03/23/2018 | | | A | | 7,911 | | (3) | | (3) | Commo Stock | 7, | 911 | \$0 | 7,911 | | D | |
| Option to Purchase Common Stock (Right to | \$15.8 | 03/23/2018 | | | A | | 14,246 | | 03/23/201 | .8 0 | 3/23/2028 | Commo Stock | 14 | .246 | \$0 | 14,246 | 5 | D | |

Explanation of Responses:

- 1. The shares were issued to the reporting person in lieu of an annual retainer of \$ 62,500.
- $2. \ Each \ restricted \ stock \ unit \ represents \ a \ contingent \ right \ to \ receive \ one \ share \ of \ XON \ common \ stock.$
- 3. The restricted stock units vest in full one year from the grant date.

Remarks:

/s/James S. Turley, by Donald P. Lehr, Power of Attorney

03/29/2018

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.